

[« See all 125 Products in Family](#)
[All Products](#) / [Optics](#) / [Polarization Optics](#) / [Retarders \(Waveplates\)](#) / [Crystalline Waveplates](#) / [Quartz Waveplates \(Retarders\)](#)

30mm Dia. 1064nm $\lambda/2$ Quartz Waveplate Multiple Order


 Stock #48-484 **1 In Stock**

 - 1 + **£342^{.40}**
[ADD TO CART](#)

Volume Pricing	
Qty 1-5	£342.40 each
Qty 6+	£276.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads	
STEP:step	PDF Drawing:pdf
IGES:igs	eDrawing:eprt
EO Spec Sheet	Download All

General

Type: Crystalline Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm): 23.0

Diameter (mm): 30.00
+0.00/-0.25

Thickness (mm): 6.00
+0.00/-0.25

Construction: Crystalline

Parallelism (arcsec): <3

Optical Properties

Coating: Laser V-Coat (1064nm)

Design Wavelength DWL (nm): 1064

Substrate: Crystal Quartz

Retardance: $\lambda/2$

Surface Quality: 10-5

Transmitted Wavefront, P-V: $\lambda/8$ for central 80% of clear aperture

Retardance Tolerance: $\pm\lambda/200$

Temperature Coefficient ($\lambda/^\circ\text{C}$): 0.0015

Damage Threshold, By Design: 3.5 J/cm² @ 1064nm, 10ns

Retardance Order: Multiple Order

Regulatory Compliance

RoHS 2015: [Compliant](#)

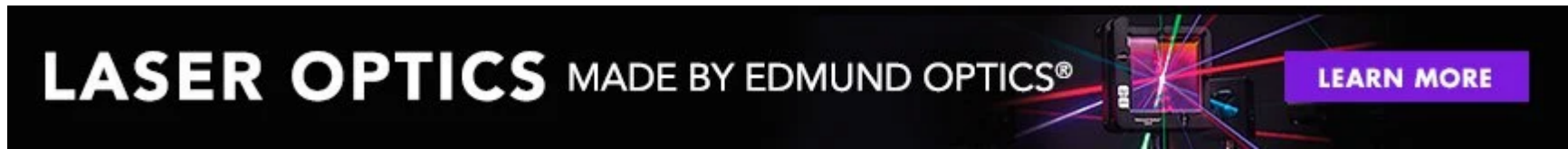
Certificate of Conformance: [View](#)

Reach 240: [Compliant](#)

Product Details

- Zero Order and Multiple Order Waveplates
- $\lambda/4$ and $\lambda/2$ Retardance
- Mounted in Black Anodized Aluminum Frame
- **Zero Order Polymer Waveplates** Also Available

Quartz Waveplates (Retarders) are available in multiple order and zero order. These waveplates are ideal for a range of applications. Multiple order waveplates are ideal for applications where the wavelength deviates less than $\pm 1\%$ from the design wavelength of the waveplate. For applications with a greater than $\pm 1\%$ deviation, zero order waveplates are recommended due to their increased bandwidth and lower sensitivity to temperature change. Quartz Waveplates (Retarders) have the fast axis marked on the edge of the mount to ease system integration.



Technical Information

Related Products



Compact Direct Mounts



Metric Polarizer Mounts



High Energy Quartz Waveplates



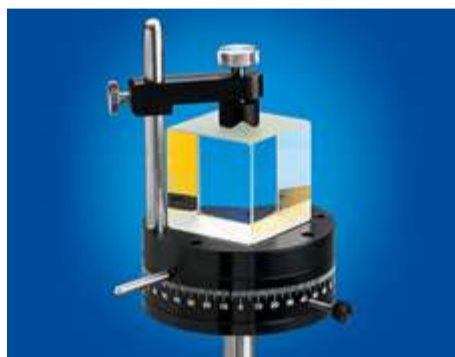
Cotton-Tipped Swab Applicators

Frequently Purchased Together



#46-406 - 100X Mitutoyo Plan Apo NIR Infinity Corrected Objective
£5,584.00

Qty



#53-027 - Rotary Mount with Prism Holder
£222.40

Qty



#54-623 - 12.5mm Diameter, C-Mount Thick Optic Mount
£47.60

Qty



#57-569 - 30mm, Polarizer Mount
£176.80

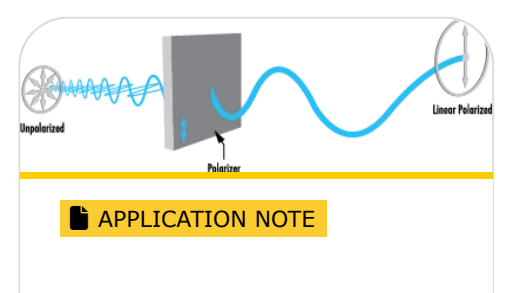
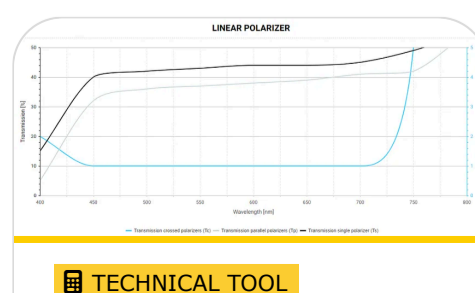
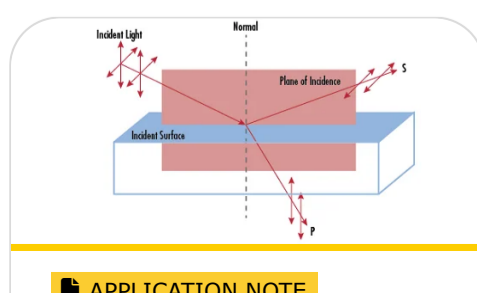
Qty



Resources

Media Type

- Application Note
- Technical Tool

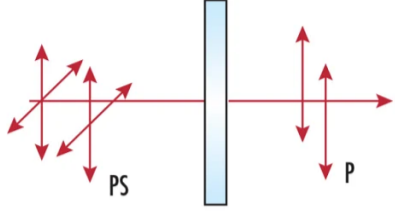


- Video
- FAQ
- Glossary

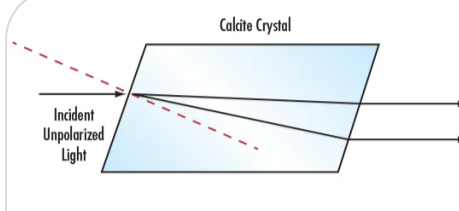
Introduction to Polarization

Laser-Cut Polymer Polarizer and Retarder...

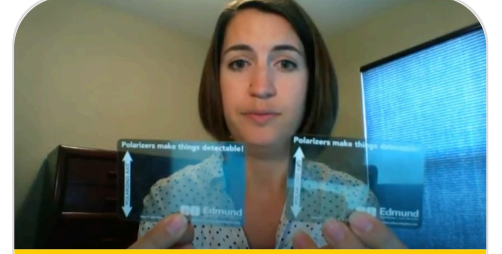
Polymer Polarizers and Retarders



APPLICATION NOTE
Polarizer Selection Guide



APPLICATION NOTE
Understanding Waveplates and Retarders



VIDEO
How Do 3D Movies Work? Polarization

[View More](#)